

TX station: 2xBkk2-v-90

Gain solid integration : disabled

Site Name: Labelitaly

General data of Antenna System

TX station	2xBkk2-v-90
Site Name	Labelitaly
System of coordinates	Geographic
Longitude	00°00'00.000"
Latitude	00°00'00.000"
Ground level a.s.l. (m)	100.0
Antenna system height (m)	50.0
Transmitter power(Watt)	1000.000
Carrier wave frequency (MHz)	200.000
Antenna system central frequency (MHz)	200.000
Antenna base diagrams type 1	LABEL ITALY-BKK_2V PANEL VHF WB
Antenna base diagrams type 2	-
Polarization (H/V/C/X)	V
Transmitting cable attenuation (dB)	0.0
Additional attenuations(dB)	0.0
Base diagrams sectors (T = All, F = Front)	T
Velocity factor of cables to Antennas (0÷1)	0.88
Coordinate System(C = cartesian, P = polar)	P
Mast side / diameter(cm):	100.0
Mast cross section (T/Q/C)	Q
Structure rotation w.r.t. North (°)	0.0
Mast rotation w.r.t. North (°)	45.0

Information about antennas used in the System

	<i>Antenna type 1</i>
Manufacturer	LABEL ITALY
Antenna model	BKK_2V PANEL VHF WB
Band start(MHz)	174
Band stop(MHz)	225
diagrams Frequency(MHz)	200
Polariz (H,V,C,X)	V
Vertical dist (cm)	150
Height (cm)	87
Width (cm)	125
Thickness (cm)	40
Weight (Kg)	25
Maximum power (KW)	2
Gain (dBd)	7.5
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	24
R.C.Phase (°)	0

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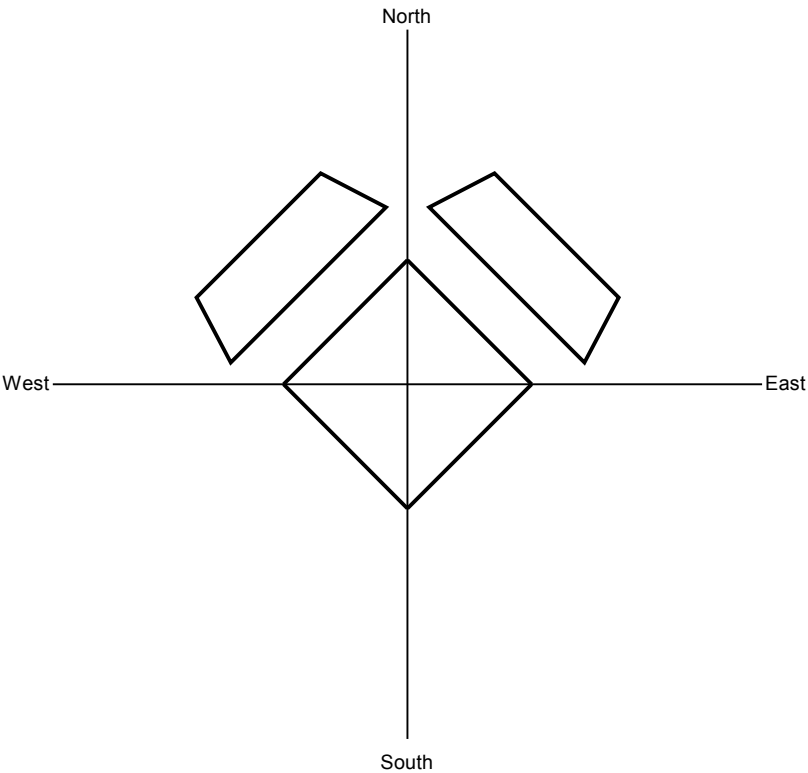
Geometr. and electrical data of Antenna System

	<i>Power</i> (%)	<i>Tilt</i> (°)	<i>Az.</i> (°/N)	<i>Phase</i> (°)		<i>V dist.</i> (m)	<i>Scr-d</i> (cm)	<i>Scr-Az</i> (°/N)	<i>Rot.</i> (1÷4)	<i>Type</i> (1÷2)	<i>L cables</i> (cm)	<i>Car. phase</i> (°)
1	50.000	0	315	0	+0.0	0.00	80.0	315.0	1	1	0.0	0.0
2	50.000	0	45	0	+0.0	0.00	80.0	45.0	1	1	0.0	0.0

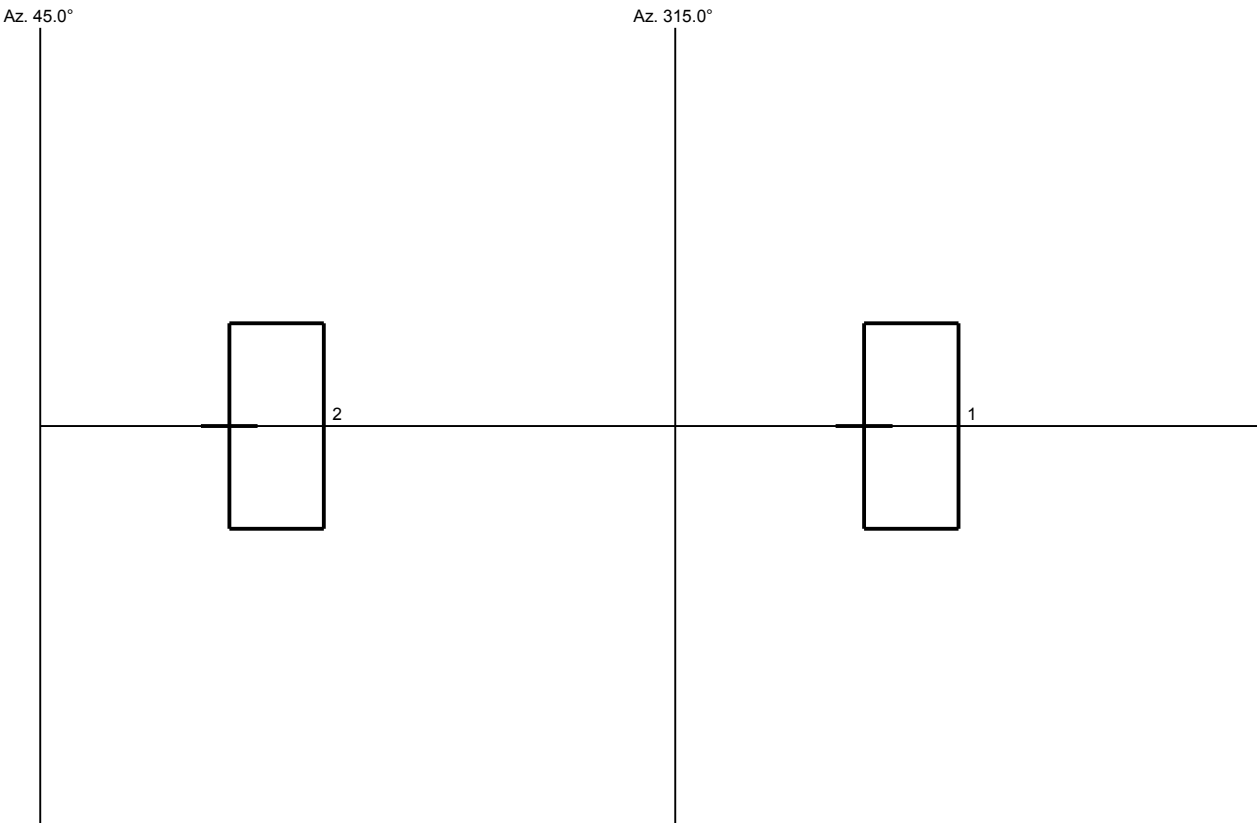
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Plan of antenna system



Side of antenna system



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Antennas arrays data

A. Antennas array azimuth (°/N)	45	315
B. Number of antennas	1	1
C. Nominal power supply (W)	500.00	500.00
D. Losses (addit. + cables) (dB)	0.0	0.0
E. Effective power supply (W)	500.00	500.00
F. Theor. maximum gain (dBd)	7.50	7.50
G. Distribution losses (dB)	0.00	0.00
H. Nominal max gain [F - G] (dBd)	7.50	7.50
I. Compensation losses (dB)	0.00	0.00
J. Effec. max gain [H - I] (dBd)	7.50	7.50
K. Effec. max gain (times)	5.62	5.62
L. Effec. max power [E * K] (KW)	2.8117	2.8117
M. Max power depr. angle (°)	0.0	0.0
N. Max power az. angle (°)	45	315

Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	2.9	90	-3.1	180	-15.5	270	-3.1
10	2.5	100	-7.0	190	-15.5	280	0.0
20	2.3	110	-11.7	200	-15.5	290	2.0
30	2.9	120	-15.5	210	-15.5	300	3.2
40	3.5	130	-15.5	220	-15.5	310	3.7
50	3.7	140	-15.5	230	-15.5	320	3.5
60	3.2	150	-15.5	240	-15.5	330	2.9
70	2.0	160	-15.5	250	-11.7	340	2.3
80	0.0	170	-15.5	260	-7.0	350	2.5

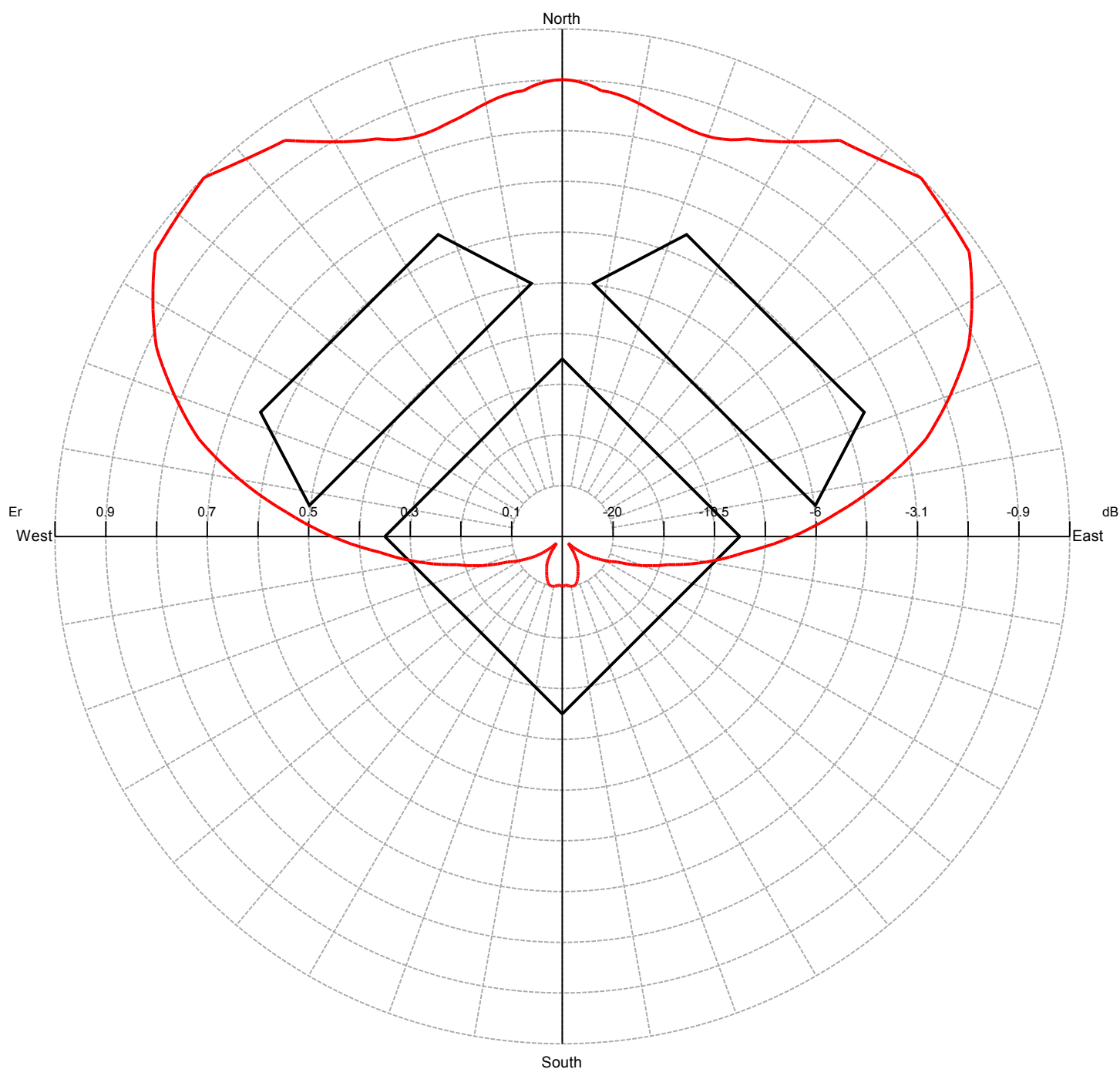
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Horizontal diagram at 0.0° depres. (Total Antenna)



0.0° depres. (Total Antenna), Gain (dBd): 3.78

ERP T.Max(KW): 2.3897 ERP E.Max(KW): 2.3897

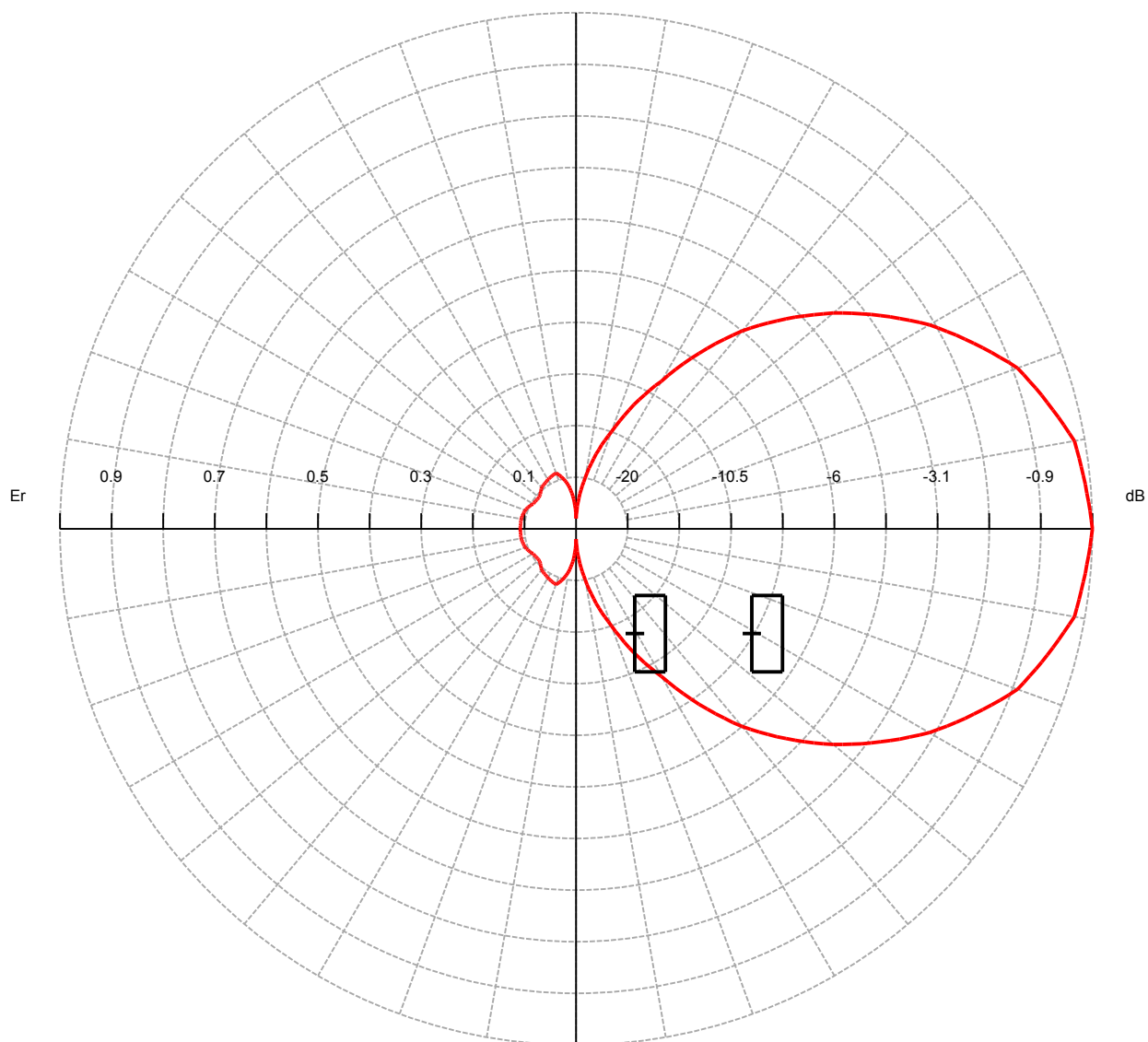
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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 2.87

ERP T.Max(KW): 1.937 ERP E.Max(KW): 1.937